

CLIENT: **Soft Chemical Co., Ltd.**
63, Geumhoseonmal-gil, Bugang-myeon,
Sejong-si,
Republic of Korea

Test Report No: TJ5233-2

Date: May 2, 2018

SAMPLE ID: Sample identified as: **“ACRYLIC SOLID SURFACE / MATERIAL: ATH, PMMA”**

SAMPLING DETAIL: Test samples were submitted to the laboratory directly by the client. No special sampling conditions or sample preparation were observed by QAI.

DATE OF RECEIPT: Samples were received at QAI on February 7, 2018.

TESTING PERIOD: March 9 – April 30, 2018

AUTHORIZATION: Testing was authorized by proposal 17SP112101 signed by June Lee on November 21, 2017.

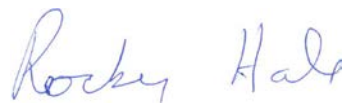
SUB-CONTRACT: The testing was subcontracted to another laboratory, The MicroStar Lab, LTD. The lab carries ISO 17025 Accreditation with A2LA for the testing conducted.

TEST PROCEDURE: ASTM G22-*Standard Practice for Determining Resistance of Plastics to Bacteria*

TEST RESULTS: Detailed test results are presented in the subsequent pages of this report.

PREPARED BY

**SIGNED FOR ON BEHALF OF
QAI LABORATORIES INC.**



Rocky Hale
Material Test Technician

Project Manager



130 Erick Street
Crystal Lake, IL 60014
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Final Test Report for:
QAI Laboratories, Inc.
1325 N. 108th E Ave
Tulsa, OK 74116

Test Method:
ASTM G-22 – 76 (1996) Standard Practice for Determining
Resistance of Plastics to Bacteria

MSL Project# R 2018-168

Testing Initiated: 4/4/18

Testing Completed: 4/25/18

Report Issued: 4/27/18

Performed By: *Agata Shulfer*
Title: Senior Staff Scientist

Approved By: *Debbie Koester*
Title: Quality Manager



RE: ASTM G-22-76 (1996)
MSL#R2018-168

Objective:

To evaluate one test sample for antimicrobial resistance to *Pseudomonas aeruginosa* ATCC# 13388 as demonstrated by ASTM G22-76 (1996) Procedure A test method.

Test Sample Description:

1. Acrylic Solid Surface / Material: ATH, PMMA

Sample was tested as received. Sample was received as 2" x 2" pieces. Sample was same on both sides and was tested in triplicate.

Procedure:

The sample was setup using Procedure A.

The inoculum was prepared using *Pseudomonas aeruginosa* ATCC# 13388, which was adjusted with the spectrophotometer to a concentration of $1-5 \times 10^8$ CFU/mL using sterile 0.8% saline solution. A sufficient amount of molten sterile nutrient salts agar held at 45°C was inoculated with the adjusted bacterial culture in a 1:1000 dilution giving a final inoculum concentration of approximately 10^5 CFU/mL. The seeded agar was poured into sterile dishes and allowed to solidify. Each sample piece was placed on the top of the seeded solidified agar. The samples were incubated at $35 \pm 2^\circ\text{C}$ and not less than 85% relative humidity for 21 days.



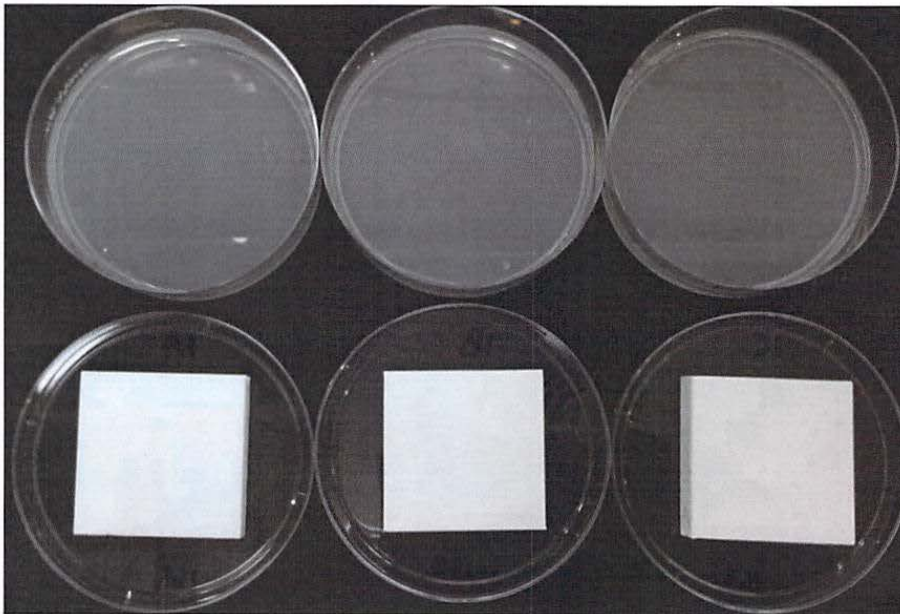
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Results:

The viability control of the test organism performed as expected, confirming the viability of the test. Temperature and relative humidity were maintained for the duration of the test. These results pertain only to the sample tested.

The sample was rated based on a growth or no growth criteria for visible bacterial growth beneath the samples on the agar surface.

Sample	Results
Acrylic Solid Surface / Material: ATH, PMMA	No visible growth on agar surface beneath samples.



***** END OF TEST REPORT *****